

0590
0710

#5



OIPE

RAW SEQUENCE LISTING

DATE: 07/23/2002

PATENT APPLICATION: US/10/073,301A

TIME: 16:01:26

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF3\07232002\J073301A.raw

ENTERED

3 <110> APPLICANT: Reiter , Yoram
 4 Denkberg, Galit
 6 <120> TITLE OF INVENTION: ANTIBODY HAVING A T-CELL RECEPTOR-LIKE SPECIFICITY, YET
 HIGHER AFFINITY,
 7 AND THE USE OF SAME IN THE DETECTION AND TREATMENT OF CANCER, VIRAL INFECTION
 8 AND AUTOIMMUNE DISEASE
 10 <130> FILE REFERENCE: 01/23094
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/073,301A
 C--> 12 <141> CURRENT FILING DATE: 2002-07-02
 12 <160> NUMBER OF SEQ ID NOS: 11
 14 <170> SOFTWARE: PatentIn version 3.1
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 9
 18 <212> TYPE: PRT
 19 <213> ORGANISM: Artificial sequence
 21 <220> FEATURE:
 22 <223> OTHER INFORMATION: HLA-A2-restricted peptide, gp100 (154)
 24 <400> SEQUENCE: 1
 26 Lys Thr Trp Gly Gln Tyr Trp Gln Val
 27 1 5
 30 <210> SEQ ID NO: 2
 31 <211> LENGTH: 9
 32 <212> TYPE: PRT
 33 <213> ORGANISM: Artificial sequence
 35 <220> FEATURE:
 36 <223> OTHER INFORMATION: HLA-A2-restricted peptide, gp100 (209)
 38 <400> SEQUENCE: 2
 40 Ile Met Asp Gln Val Pro Phe Ser Val
 41 1 5
 44 <210> SEQ ID NO: 3
 45 <211> LENGTH: 9
 46 <212> TYPE: PRT
 47 <213> ORGANISM: Artificial sequence
 49 <220> FEATURE:
 50 <223> OTHER INFORMATION: HLA-A2-restricted peptide, gp100 (280)
 52 <400> SEQUENCE: 3
 54 Tyr Leu Glu Pro Gly Pro Val Thr Val
 55 1 5
 58 <210> SEQ ID NO: 4
 59 <211> LENGTH: 9
 60 <212> TYPE: PRT
 61 <213> ORGANISM: Artificial sequence
 63 <220> FEATURE:
 64 <223> OTHER INFORMATION: HLA-A2-restricted peptide, MUC1

RAW SEQUENCE LISTING

DATE: 07/23/2002

PATENT APPLICATION: US/10/073,301A

TIME: 16:01:26

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF3\07232002\J073301A.raw

```

66 <400> SEQUENCE: 4
68 Leu Leu Leu Thr Val Leu Thr Val Leu
69 1 5
72 <210> SEQ ID NO: 5
73 <211> LENGTH: 9
74 <212> TYPE: PRT
75 <213> ORGANISM: Artificial sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: HLA-A2-restricted peptide, HTLV-1 (TAX)
80 <400> SEQUENCE: 5
82 Leu Leu Phe Gly Tyr Pro Val Tyr Val
83 1 5
86 <210> SEQ ID NO: 6
87 <211> LENGTH: 9
88 <212> TYPE: PRT
89 <213> ORGANISM: Artificial sequence
91 <220> FEATURE:
92 <223> OTHER INFORMATION: HLA-A2-restricted peptide, hTeroom temperature (540)
94 <400> SEQUENCE: 6
96 Ile Leu Ala Lys Phe Leu His Trp Leu
97 1 5
100 <210> SEQ ID NO: 7
101 <211> LENGTH: 9
102 <212> TYPE: PRT
103 <213> ORGANISM: Artificial sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: HLA-A2-restricted peptide, hTeroom temperature (865)
108 <400> SEQUENCE: 7
110 Arg Leu Val Asp Asp Phe Leu Leu Val
111 1 5
114 <210> SEQ ID NO: 8
115 <211> LENGTH: 711
116 <212> TYPE: DNA
117 <213> ORGANISM: Artificial sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: G1 Single chain Fv-recombinant antibody DNA sequence
122 <400> SEQUENCE: 8
123 cagggtgaaac tgcaggagtc tgggggaggc ttagtgaagc ctggagggtc cctgaaactc 60
125 tcctgtgcag cctctggatt cactttcagt agctatggca tgtcttgggt tcgccagact 120
127 ccagacaaga ggctggagtg ggtcgcaacc attagtagtg gtggtagtta cacctactat 180
129 ccagacagtg tgaaggggcg attcaccatc tccagagaca atgccaagaa caccctgtac 240
131 ctgcaaatga gcagtctgaa gtctgaggac acagccatgt attactgtgc aagaggtaac 300
133 tgggaaggat ggtacttcga tgtctggggc caagggacca cggtcaccgt ctctcagggt 360
135 ggaggcggtt caggcgaggg tggctctggc ggtggcggat cgaacatcga gctcactcag 420
137 tctccagcaa tcatgtctgc atctccaggg gagagggtca ccatgacctg cagtgccagc 480
139 tcaagtatac gttacatata ttggtaccaa cagaagcctg gatcctcccc cagactcctg 540
141 atttatgaca catccaacgt ggctcctgga gtcccttttc gcttcagtgg cagtgggtct 600
143 gggacctctt attctctcac aatcaaccga atggaggctg aggatgctgc cacttattac 660
145 tgccaggagt ggagtgggta tccgtacacg ttcggagggg ggacaaagtt g 711

```

RAW SEQUENCE LISTING

DATE: 07/23/2002

PATENT APPLICATION: US/10/073,301A

TIME: 16:01:26

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF3\07232002\J073301A.raw

```

148 <210> SEQ ID NO: 9
149 <211> LENGTH: 237
150 <212> TYPE: PRT
151 <213> ORGANISM: Artificial sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: G1 single chain Fv- recombinant antibody protein sequence
156 <400> SEQUENCE: 9
158 Gln Val Lys Leu Gln Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
159 1 5 10 15
162 Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
163 20 25 30
166 Gly Met Ser Trp Val Arg Gln Thr Pro Asp Lys Arg Leu Glu Trp Val
167 35 40 45
170 Ala Thr Ile Ser Ser Gly Gly Ser Tyr Thr Tyr Tyr Pro Asp Ser Val
171 50 55 60
174 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
175 65 70 75 80
178 Leu Gln Met Ser Ser Leu Lys Ser Glu Asp Thr Ala Met Tyr Tyr Cys
179 85 90 95
182 Ala Arg Gly Asn Trp Glu Gly Trp Tyr Phe Asp Val Trp Gly Gln Gly
183 100 105 110
186 Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
187 115 120 125
190 Ser Gly Gly Gly Gly Ser Asn Ile Glu Leu Thr Gln Ser Pro Ala Ile
191 130 135 140
194 Met Ser Ala Ser Pro Gly Glu Arg Val Thr Met Thr Cys Ser Ala Ser
195 145 150 155 160
198 Ser Ser Ile Arg Tyr Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Ser
199 165 170 175
202 Pro Arg Leu Leu Ile Tyr Asp Thr Ser Asn Val Ala Pro Gly Val Pro
203 180 185 190
206 Phe Arg Phe Ser Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile
207 195 200 205
210 Asn Arg Met Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Glu Trp
211 210 215 220
214 Ser Gly Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu
215 225 230 235
218 <210> SEQ ID NO: 10
219 <211> LENGTH: 9
220 <212> TYPE: PRT
221 <213> ORGANISM: Artificial sequence
223 <220> FEATURE:
224 <223> OTHER INFORMATION: Influenza derived HLA-restricted peptide
226 <400> SEQUENCE: 10
228 Gly Ile Leu Gly Phe Val Phe Thr Leu
229 1 5
232 <210> SEQ ID NO: 11
233 <211> LENGTH: 9
234 <212> TYPE: PRT

```

RAW SEQUENCE LISTING

DATE: 07/23/2002

PATENT APPLICATION: US/10/073,301A

TIME: 16:01:26

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF3\07232002\J073301A.raw

235 <213> ORGANISM: Artificial sequence

237 <220> FEATURE:

238 <223> OTHER INFORMATION: Hepatitis B derived HLA-restricted peptide

240 <400> SEQUENCE: 11

242 Ser Thr Asn Arg Gln Ser Gly Arg Gln

243 1 5

VERIFICATION SUMMARY

DATE: 07/23/2002

PATENT APPLICATION: US/10/073,301A

TIME: 16:01:27

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF3\07232002\J073301A.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date